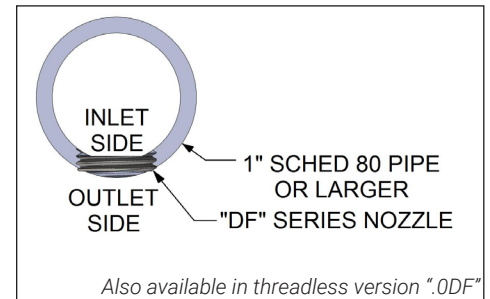
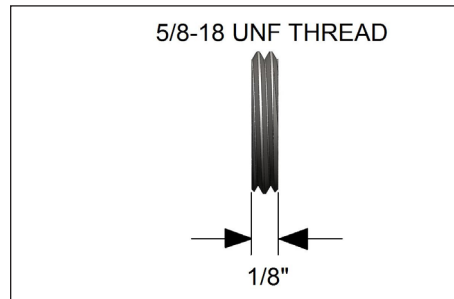
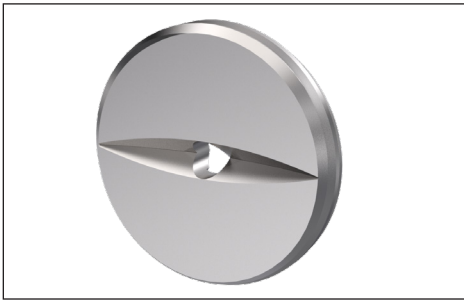




DF SERIES SPRAY NOZZLE

FLAT SPRAY • THREADED CONNECTION



SPRAY CHARACTERISTICS:

These thin-disc flat spray nozzles are used when the nozzle must not project beyond the wall of the header pipe. Minimum recommended pipe size is 1" schedule 80. Optimum thread engagement occurs on pipes of 1-1/4" schedule 80 and larger. Usual operating pressures are up to 150 PSI.

CONSTRUCTION:

Standard materials of construction are 316 stainless steel and 303 stainless steel. Other materials available upon request.

TYPICAL APPLICATIONS:

DF Series shower nozzles are designed to work in a number of commercially available "shower" bar systems where a self-aligning replaceable nozzle disc is required. Most commonly seen in the pulp and paper industry.

Model	Equiv. Orifice Diameter	Capacity at Various Pressures									Spray Angle @ 3 bar
		0.7 bar	1.0 bar	1.5 bar	2 bar	3 bar	4 bar	5 bar	7 bar	10 bar	
DF35054	1.42	1.03	1.23	1.51	1.74	2.13	2.46	2.75	3.3	3.9	35
DF3513	2.21	2.48	2.96	3.6	4.2	5.1	5.9	6.6	7.8	9.4	35
DF3524	3.02	4.6	5.5	6.7	7.7	9.5	10.9	12.2	14.5	17.3	35
DF3533	3.53	6.3	7.5	9.2	10.6	13.0	15.0	16.8	19.9	23.8	35
DF4013	2.21	2.48	2.96	3.6	4.2	5.1	5.9	6.6	7.8	9.4	40
DF4047	4.22	9.0	10.7	13.1	15.1	18.6	21.4	23.9	28.3	34	40
DF4313	2.21	2.48	2.96	3.6	4.2	5.1	5.9	6.6	7.8	9.4	43
DF5013	2.21	2.48	2.96	3.6	4.2	5.1	5.9	6.6	7.8	9.4	50
DF55054	1.42	1.03	1.23	1.51	1.74	2.13	2.46	2.75	3.3	3.9	55
DF55084	1.78	1.60	1.91	2.34	2.71	3.3	3.8	4.3	5.1	6.1	55
DF5513	2.21	2.48	2.96	3.6	4.2	5.1	5.9	6.6	7.8	9.4	55
DF5824	3.02	4.6	5.5	6.7	7.7	9.5	10.9	12.2	14.5	17.3	58
DF5833	3.53	6.3	7.5	9.2	10.6	13.0	15.0	16.8	19.9	23.8	58
DF6022	2.87	4.2	5.0	6.1	7.1	8.7	10.0	11.2	13.3	15.9	60
DF65054	1.42	1.03	1.23	1.51	1.74	2.13	2.46	2.75	3.3	3.9	65
DF6513	2.21	2.48	2.96	3.6	4.2	5.1	5.9	6.6	7.8	9.4	65
DF6515	2.39	2.86	3.4	4.2	4.8	5.9	6.8	7.6	9.0	10.8	65

* TABLE CONTINUES ON FOLLOWING PAGE

Model	Equiv. Orifice Diameter	Capacity at Various Pressures									Spray Angle @ 3 bar
		0.7 bar	1.0 bar	1.5 bar	2 bar	3 bar	4 bar	5 bar	7 bar	10 bar	
DF6519	2.67	3.6	4.3	5.3	6.1	7.5	8.7	9.7	11.5	13.7	65
DF6524	3.02	4.6	5.5	6.7	7.7	9.5	10.9	12.2	14.5	17.3	65
DF6840	3.89	7.6	9.1	11.2	12.9	15.8	18.2	20.4	24.1	28.8	70
DF70054	1.42	1.03	1.23	1.51	1.74	2.13	2.46	2.75	3.3	3.9	70
DF80054	1.42	1.03	1.23	1.51	1.74	2.13	2.46	2.75	3.3	3.9	80
DF80084	1.78	1.60	1.91	2.34	2.71	3.3	3.8	4.3	5.1	6.1	80
DF8013	2.21	2.48	2.96	3.6	4.2	5.1	5.9	6.6	7.8	9.4	80
DF8019	2.67	3.6	4.3	5.3	6.1	7.5	8.7	9.7	11.5	13.7	80
DF8024	3.02	4.6	5.5	6.7	7.7	9.5	10.9	12.2	14.5	17.3	80
DF8033	3.53	6.3	7.5	9.2	10.6	13.0	15.0	16.8	19.9	23.8	80
DF90018	0.81	0.34	0.41	0.50	0.58	0.71	0.82	0.92	1.09	1.30	90
DF90054	1.42	1.03	1.23	1.51	1.74	2.13	2.46	2.75	3.3	3.9	90
DF11006	1.50	1.14	1.37	1.67	1.93	2.37	2.73	3.06	3.6	4.3	110